

AU-A-44948/85

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86-078263/04 A93102 SANO 20.06.84
SANDOZ AG 291-A
01.10.84-US-657307 (+-JP-125353) (16.01.86) C04b-
28/2 Cement mix for mortars of improved storage ability - comprises
hydraulic cement, hydroxypropyl-methyl cellulose, lignosulphonate,
aggregate and water
E18E CH DE FR GB IT SE N(AU BR JP KR NO)
C86-012039

The mix comprises a hydraulic cement (I), hydroxypropyl
methacrylate (II), a (modified lignosulphonate (III), an
aggregate (IV) and water.

APPLICATION

The mix is combined with a polyhydroxycarboxylic acid
(V), its salt and/or a polysaccharide (VI), and an olefin or
alkyl benzene sulphonate anionic surfactant to form a mortar.

PREPARATION OF MORTAR

A mixt. of (I), (IV) and water is mixed with a mixt. of
the other components.

USES/ADVANTAGES

The mortar is used in construction or for cementing
brick, cement block, stucco or ceramic tiles. It has good
storage ability and in partic. hydration of the mortar is
retarded during mixing, transport and storage for up to 72 h.

after mixing without affecting the other properties. The
mortar has excellent adhesive properties to brick or block.
Adsorption of water from the mix onto the porous surface of
building units is uniform, air content is stable and the strength
needed to support loads placed on it is adequate.

PREFERRED EMBODIMENT

The mortar is pref. prep. by adding 0.02-0.07 wt.-% (II)
0.10-0.20 wt.-% sodium or calcium lignosulphonate, 0.35-0.6 wt.
-% sodium gluconate and 0.001-0.008 wt.-% sodium alpha-olefin
sulphonate to a mixt. of (I), 200-800 wt.-% fine (IV) and
up to 80 wt.-% fine and 25-65 wt.-% water.

EXAMPLE

A mixt. of 0.07 wt.-% hydroxypropyl methyl cellulose,
0.175 wt.-% sodium lignosulphonate, 0.52 wt.-% sodium gluconate
and 0.008 wt.-% alpha-olefin sulphonate was added to a
mixt. of type 1 Portland cement (898 g), masonry lime (100 g)
masonry sand (2340) with fineness modulus of 1.81 and half
the required water for a water to cement ratio of 0.59.

The mortar had 24.00 vol.-% air, 1255 flow, cone penetra-
tion of 68, pliable consistency after 48 h. from mixing and
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Good scratch resistance, workability, cohesiveness and adhesion to brick and block. (16pp 1616KJPDwN0n/0),
(E) ISR: - GB2114985; FR1502387; FR1543998; FR2154035;
FR2085402; FR2114734; GB2040907; GB2093015.

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